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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/519,741	03/06/2000	Aurel D. Brumboiu	28959-7	7977
7	7590 10/20/2003		EXAMI	NER
Roseann B. Caldwell			CROSS, LATOYA I	
Bennett Jones . 4500 Bankers Hall East			ART UNIT	PAPER NUMBER
855 - 2nd Street SW			1743	
Calgary, AB T2P 4K7 CANADA			DATE MAILED: 10/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action O	09/519,741	BRUMBOIU ET AL.				
 Office Action Summary 	Examiner	Art Unit				
	LaToya I. Cross	1743				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 23 J	<u>luly 2003</u> .					
2a)☐ This action is FINAL . 2b)☑ Th	is action is non-final.					
 Since this application is in condition for allowed closed in accordance with the practice under a Disposition of Claims 						
4) \square Claim(s) <u>1-15 and 20-63</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5)⊠ Claim(s) <u>14,15 and 33-43</u> is/are allowed.						
6)⊠ Claim(s) <u>1-13,20-32 and 44-63</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.					
9) The specification is objected to by the Examine	г.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).				
a)☐ All b)☐ Some * c)☐ None of:						
 Certified copies of the priority documents 	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	·					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	· —	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7-23-03 has been entered. Claims 1-15 and 20-43 are pending.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-10, 20-25, 40 and 41 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Independent claims 1 and 8 have been amended to recite a method for determining the response of a gas-in-liquid concentration measuring device where a second mathematical function representative of the response of the gas-in-liquid concentration measurement device when the concentration of the gas is above the solubility threshold is determined. The original specification lacks support for such a method. Applicants' specification provides for a method of determining the concentration of gas in a liquid, as in independent claim 14, and a method for obtaining a correction factor for measuring a concentration of gas

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in a liquid (as was recited in the originally filed claims). Further, the original specification provides for a method for preparing a concentration measurement device, as in independent claim 11. There is no support in the original specification for determining the response of a gas-in-liquid concentration measuring device. In fact, the specification fails to even mention the "response of a gas-in-liquid concentration measuring device". The claims as amended are considered to be new matter. The new matter must be cancelled.

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 11-13, 26-32 and 42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 recites "a method for preparing a concentration determining device".

The method steps that follow the preamble do not appear to result in a concentration determining device. Rather, it appears that the method step result in an instrument (a correction factor) that may be used in helping to determine the concentration of gas being measuring using a concentration determining device. Further clarification is required.

Allowable Subject Matter

5. Claims 14, 15, 33-39 and 43 are allowed.

Claims 14, 15, 33-39 and 43 are being indicated as allowable because the prior art of record fails to teach or suggest determining the concentration of gas in a

first mathematical function.

liquid whereby 1) a gas concentration measuring device is used to determine the concentration of gas in the liquid and 2) a correction factor is applied whereby the correction factor is obtained by a comparison of a first mathematical function, generated from measurements of the gas at known concentrations, and a second mathematical function, deduced from a theoretical response using the

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaToya I. Cross whose telephone number is 703-305-7360. The examiner can normally be reached on Monday-Friday 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 703-308-4037. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Sadnja Cross

Patent Examiner - AU 1743

September 22, 2003